

# Product data sheet

Specifications



## industrial timing relay - 0.3..30 s - type C - 24 V AC/DC - 1 C/O

RE8RA31B

⚠ Discontinued on: Dec 2, 2020

⚠ End-of-service on: Dec 31, 2020

⚠ Discontinued

### Main

Range of Product	Zelio Time
Product or Component Type	Optimum industrial timing relay
Component name	RE8
Time delay type	C
Time delay range	0.3...30 s
Sale per indivisible quantity	10

### Complementary

Discrete output type	Relay
Contacts material	90/10 silver nickel contacts
Width pitch dimension	0.9 in (22.5 mm)
[Us] rated supply voltage	24 V AC/DC 50/60 Hz
Voltage range	0.9...1.1 Us
Connections - terminals	Screw terminals, 2 x 1.5 mm <sup>2</sup> flexible with cable end Screw terminals, 2 x 2.5 mm <sup>2</sup> flexible without cable end
tightening torque	5.3...9.7 lbf.in (0.6...1.1 N.m)
Setting accuracy of time delay	+/- 20 % of full scale
Repeat accuracy	< 1 %
Voltage drift	< 2.5 %/V
Temperature Drift	< 0.2 %/°C
Minimum pulse duration	26 ms
reset time	50 ms
maximum switching voltage	250 V
Mechanical durability	20000000 cycles
[Ith] conventional free air thermal current	8 A
Maximum [Ie] rated operational current	2 A DC-13 24 V 158 °F (70 °C) IEC 60947-5-1/1991 2 A DC-13 24 V 158 °F (70 °C) VDE 0660 3 A AC-15 24 V 158 °F (70 °C) IEC 60947-5-1/1991 3 A AC-15 24 V 158 °F (70 °C) VDE 0660 0.1 A DC-13 250 V 158 °F (70 °C) IEC 60947-5-1/1991 0.1 A DC-13 250 V 158 °F (70 °C) VDE 0660 0.2 A DC-13 115 V 158 °F (70 °C) IEC 60947-5-1/1991 0.2 A DC-13 115 V 158 °F (70 °C) VDE 0660
Minimum switching capacity	10 mA 12 V

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Input voltage</b>	24 V Y1
<b>Maximum switching current</b>	10 mA Y1)
<b>Input compatibility</b>	2-wire sensors DC with leakage current < 1 mA <164.04 ft (50 m) Y1
<b>Marking</b>	CE
<b>Overvoltage category</b>	III conforming to IEC 60664-1
<b>[Ui] rated insulation voltage</b>	250 V IEC 300 V CSA
<b>Supply disconnection value</b>	> 0.1 Uc
<b>Operating position</b>	Any position without derating
<b>Surge withstand</b>	2 kV IEC 61000-4-5 level 3
<b>Power consumption in VA</b>	0.7 VA 24 V
<b>Maximum power consumption in W</b>	0.5 W 24 V
<b>Terminal description</b>	(15-16-18)OC_ON (A1-A2)CO (Y1)UNUSED
<b>Height</b>	3.07 in (78 mm)
<b>Width</b>	0.9 in (22.5 mm)
<b>Depth</b>	3.1 in (80 mm)
<b>Net Weight</b>	0.24 lb(US) (0.11 kg)

## Environment

<b>Immunity to microbreaks</b>	3 ms
<b>Standards</b>	EN/IEC 61812-1
<b>Product Certifications</b>	CSA UL GL
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature for Operation</b>	-4...140 °F (-20...60 °C)
<b>Relative humidity</b>	15...85 % 3K3 IEC 60721-3-3
<b>Vibration resistance</b>	0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6
<b>IP degree of protection</b>	IP20 terminals) IP50 casing)
<b>Pollution degree</b>	3 IEC 60664-1
<b>Dielectric test voltage</b>	2.5 kV
<b>Non-dissipating shock wave</b>	4.8 kV
<b>Resistance to electromagnetic fields</b>	9.1 V/m (10 V/m) IEC 61000-4-3 level 3
<b>Resistance to fast transients</b>	2 kV IEC 61000-4-4 level 3
<b>Disturbance radiated/conducted</b>	CISPR 11 group 1 - class A CISPR 22 - class A

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1

# Contractual warranty

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Warranty (in months)

18



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Longer



#### Lifetime extension

Repair

No